

# Clear Sight Clearer Insight

## HD IP CAMERA SERIES IPM229-7511-IM



### 12MP Compact Fisheye IP Camera FOR INTERIOR/EXTERIOR APPLICATIONS

- 12MP 360° or 180° viewing angle
- Immervision Enabled Lens
- H.265, H.264 and MJPEG compression
- SMART Bitrate Control and Region of Interest
- Power over Ethernet (IEEE 802.3af)

#### CAMERA

Model	IPM229-7511-IM
Image Sensor	1/1.7" 12.4M CMOS
Effective Pixels	4000(H) x 3000(V)
Scanning System	Progressive scanning
AGC Control	Auto
IRIS Type	Auto Exposure
Minimum Illumination	Color : 0.3 Lux / BW : 0.02 Lux
Lens	2.1 mm, F2.2, Immervision Enabled Lens (RPL-C9VVT)
Angle of View	360°
Shutter Time	Auto / Manual: 1/30 ~ 1/32,000, Anti-Flicker, Slow Shutter (1/2,1/3,1/5,1/6,1/7.5,1/10)
Day & Night	True Day & Night (Removable IR-cut filter)
Wide Dynamic Range	DigitalWDR
S/N Ratio	50dB

#### IR ILLUMINATOR

IRLED	
IR Working Distance	

#### VIDEO

Video Compression Profile	H.265, H.264, MJPEG H.264 : MP / HP. And H.265 : MP
Multiple Profile Streaming Performance	4000x3000p20+320x320p20 with H.264,H.265+MJPEG 3000x3000p30+320x320p30 with H.264,H.265+MJPEG
Max Resolution	4000 x 3000
Video Bit Rate	100Kbps ~ 10Mbps Multi-rate for Preview and Recording
Bitrate Control	Multi Streaming CBR/VBR (Controllable frame rate and Bandwidth)
Digital Noise Reduction	3D-DNR
Privacy Mask	16 programmable zones
Special Features	SMART Bitrate Control, Region of Interest
Other Image Processing	Configurable Exposure, White Balance, Sharpness
Analogue Output-	

#### AUDIO

Audio Compression	G.711
Audio input / output	1 / 1

#### EVENT

Event Trigger	Motion, Temperature critical
Pre-Post Recording	Pre: 1~5 sec Post: 1~240 sec
Event Notification	FTP, E-mail, SD card

#### NETWORK

Ethernet Standard	10 / 100 Base-T
IP	IPv4
Protocol	TCP/IP, UDP, AutoIP, RTP(UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2/v3(MIB-2), ONVIF
Security	HTTPS(SSL), IP filtering, 802.1x, Digest Authentication
Plug In	ONVIF Profile S, CGI API

#### GENERAL

Material	Aluminum Die-casting & PC, White
External I/O Terminals	
Language on webpage	English
Power Source	DC12V, PoE(IEEE 802.3af)
Power Consumption	DC12V Max 6.8W, PoE Max 7.8W
Operating Conditions	Humidity 10 ~ 90% RH (non-condensing) [DC12V / PoE] -20°C ~ 50°C (-4°F ~ 122°F)
Approvals	FCC, CE, IP66
Weight	0.5kg
Dimensions (W x H)	Ø125mm x 48.6mm

#### EDGE STORAGE

Storage	1x microSD/microSDHC / microSDXC (card not included)
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**IPM229-7511-IM**



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### VIDEO ANALYTICS

#### Basic Features

##### Analytics Engine

VCA Technology's advanced tracking algorithm with rich library of detection behaviors.

##### Detection Zones and Rules

40 zones (Multi-segment Polygons and Lines) in total, 60 rules in total as standard.

##### Intrusion Detection

Detection of the presence of an object.

##### Tamper Detection

Supported as standard.

#### Optional Features

##### Detection Behavior

Enter, Exit, Appear, Disappear, Stop, Direction, Dwell filter, Speed filter\*1, Abandoned/Removed object filter, Tailgating, Color Filter\*1.

##### Logical Rules

Extends standard rules to allow various combinations of the inputs.

##### 3D Behavior

Perspective Corrected Size and Speed Filters.

##### Object Classification

Configured Max./Min. object sizes and Max./Min. speeds.

##### People Tracking\*1

Tracks individuals separately among overlapped multiple people.

##### Counting Line

High accuracy people and vehicle counting, 20 counters in total.

##### Meta Data

JSON format, Plain XML format.

\*1: Please check the availability with your account manager.

#### Basic Features



Intrusion  
Detection



Zones &  
lines



Tamper  
Detection



Camera Shake  
Cancellation

#### Optional Features



Appear &  
Disappear  
Filter



Stopped  
Filter



Dwell  
Filter



Enter & Exit  
Filters



Tailgating  
Filter



Speed  
Filter



3D  
Calibration



Object  
Counting



People  
Tracker



Colour  
Filter



Abandoned  
Object  
Filter



Removed  
Object  
Filter



Direction  
Filter



Logical  
Rules



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